

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1440 p.s.i. @ 100°F

Test pressure (ASTM A105)

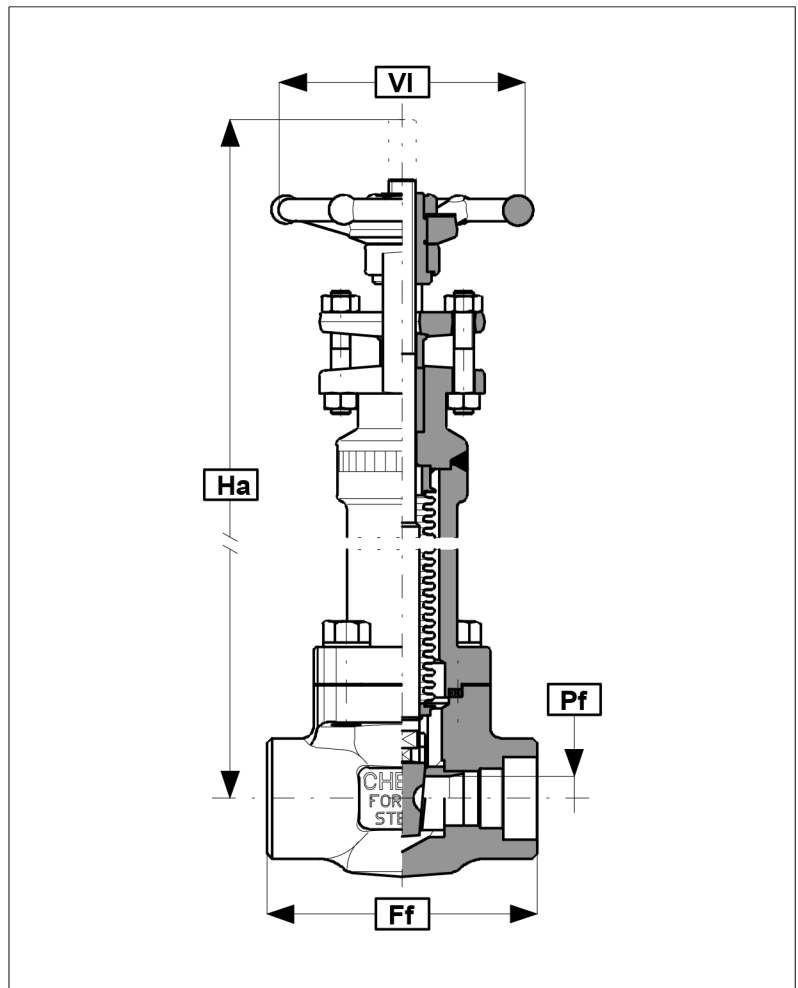
Hydraulic: (minimum)
Body - 2180 p.s.i.
Seat - 1495 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

Connections (xx)

SW Socket weld	B8 Butt weld 80
TH Threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw(u)/NPT	
B4 Butt weld 40	



REDUCED BORE

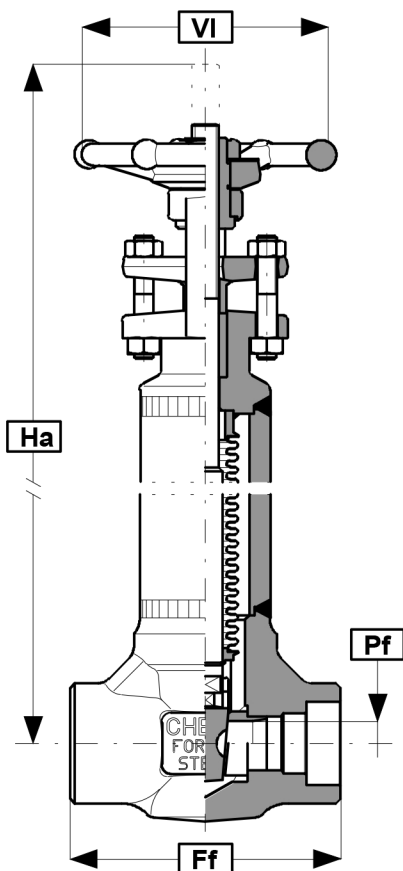
		1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)		80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12
Ha (mm/in)		256 10,08	267 10,51	300 11,81	344 13,54	421 16,57	433 17,05
VI (mm/in)		90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51
Pf (mm/in)		10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44
Wt. (kg/lb)		3,0 6,6	3,4 7,5	5,3 11,7	7,7 16,9	11,0 24,2	14,2 31,2
Catal. no.		SR252B/xx	SR253B/xx	SR254B/xx	SR255B/xx	SR256B/xx	SR257B/xx

FULL BORE

	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)	80 3,15	80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12	150 5,91
Ha (mm/in)	256 10,08	256 10,08	267 10,51	300 11,81	344 13,54	421 16,57	433 17,05	560 22,05
VI (mm/in)	90 3,54	90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51	200 7,87
Pf (mm/in)	8,5 0,33	10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44	48 1,89
Wt. (kg/lb)	3,0 6,6	3,0 6,6	3,4 7,5	5,3 11,7	7,7 17,1	11,0 24,4	14,2 31,2	25,0 55,0
Catal. no.	SF210B/xx	SF211B/xx	SF212B/xx	SF213B/xx	SF214B/xx	SF215B/xx	SF216B/xx	SF217B/xx

1) Standard and alternative valve materials on page 67, type D
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW & NPT dimensions on page 73

4) On request flanged ends can be supplied; body dimensions on page 5,6,7



Ratings (ASTM A105)

800 p.s.i. @ 850°F
1440 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydraulic: (minimum)
Body - 2180 p.s.i.
Seat - 1495 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

Connections (xx)

SW Socket weld	B8 Butt weld 80
TH Threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw(u)/NPT	
B4 Butt weld 40	

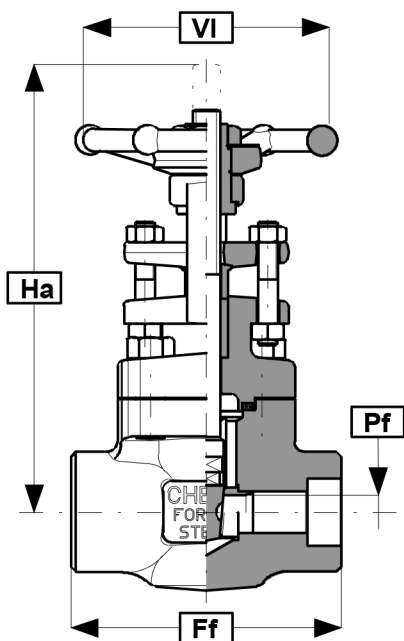
REDUCED BORE

		1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)		80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12
Ha (mm/in)		256 10,08	267 10,51	300 11,81	344 13,54	421 16,57	433 17,05
VI (mm/in)		90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51
Pf (mm/in)		10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44
Wt. (kg/lb)		2,7 5,9	3,1 6,8	4,7 10,3	6,9 15,2	9,5 20,9	12,6 27,7
Catal. no.		SR252/xx	SR253/xx	SR254/xx	SR255/xx	SR256/xx	SR257/xx

FULL BORE

	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)	80 3,15	80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12	150 5,91
Ha (mm/in)	256 10,08	256 10,08	267 10,51	300 11,81	344 13,54	421 16,57	433 17,05	560 22,05
VI (mm/in)	90 3,54	90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51	200 7,87
Pf (mm/in)	8,5 0,33	10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44	48 1,89
Wt. (kg/lb)	2,7 5,9	2,7 5,9	3,1 6,8	4,7 10,3	6,9 15,2	9,5 20,9	12,6 27,7	25,0 55,0
Catal. no.	SF210/xx	SF211/xx	SF212/xx	SF213/xx	SF214/xx	SF215/xx	SF216/xx	SF217/xx

1) Standard and alternative valve materials on page 67, type D
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW & NPT dimensions on page 73



Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydraulic:(minimum)

Body - 5575 p.s.i.
Seat - 4100 p.s.i.

Air under water:

Seat - 85 p.s.i.

Standards

Construction	API 602
Socket weld	ASME B16.11
Threaded	ASME B1.20.1
Butt weld	ASME B16.25
Test	API 598

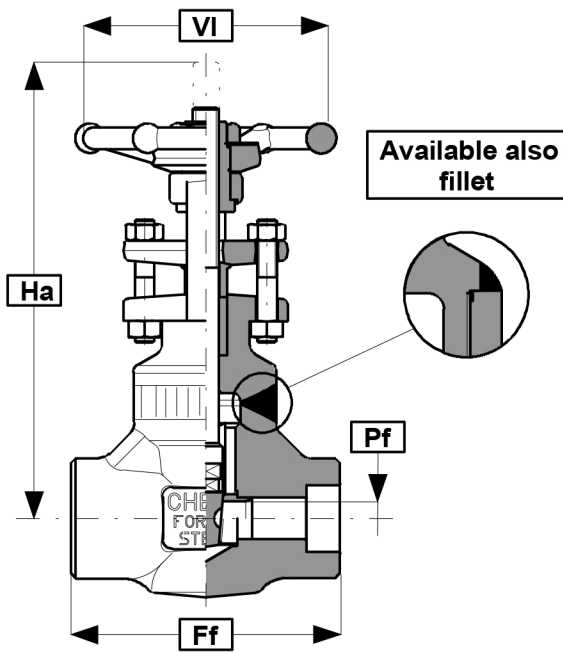
Connections (xx)

SW Socket weld	B8 Butt weld 80
TH Threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw(u)/NPT	
B6 Butt weld 160	

CONVENTIONAL BORE

	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)	90 3,54	90 3,54	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12	150 5,91
Ha (mm/in)	163 6,42	163 6,42	163 6,42	180 7,09	212 8,35	245 9,65	266 10,47	318 12,52
VI (mm/in)	90 3,54	90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51	200 7,87
Pf (mm/in)	8,5 0,33	8,5 0,33	10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44
Wt. (kg/lb)	2,3 5,1	2,3 5,1	2,3 5,1	3,7 8,1	5,4 11,9	7,4 16,3	9,6 21,1	15,1 33,2
Catal. no.	X650/xx	X651/xx	X652/xx	X653/xx	X654/xx	X655/xx	X656/xx	X657/xx

1) Standard and alternative valve materials on page 67, type A
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW, NPT & BW dimensions on page 73



Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydraulic: (minimum)
Body - 5575 p.s.i.
Seat - 4100 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction	API 602
Socket weld	ASME B16.11
Threaded	ASME B1.20.1
Butt weld	ASME B16.25
Test	API 598

Connections (xx)

SW Socket weld	B8 Butt weld 80
TH Threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw(u)/NPT	
B6 Butt weld 160	

CONVENTIONAL BORE

	1/4"		3/8"		1/2"		3/4"		1"		1.1/4"		1.1/2"		2"	
Ff (mm/in)	90 3,54	90 3,54	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12	150 5,91								
Ha (mm/in)	170 6,69	170 6,69	170 6,69	183 7,20	219 8,62	247 9,72	274 10,79	331 13,03								
VI (mm/in)	90 3,54	90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51	200 7,87								
Pf (mm/in)	8,5 0,33	8,5 0,33	10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44								
Wt. (kg/lb)	2,2 4,8	2,2 4,8	2,2 4,8	3,3 7,3	5,0 11,0	6,4 14,1	8,7 19,1	13,6 29,9								
Catal. no.	X650WB/xx	X651WB/xx	X652WB/xx	X653WB/xx	X654WB/xx	X655WB/xx	X656WB/xx	X657WB/xx								

1) Standard and alternative valve materials on page 67, type A
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW, NPT & BW dimensions on page 73

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

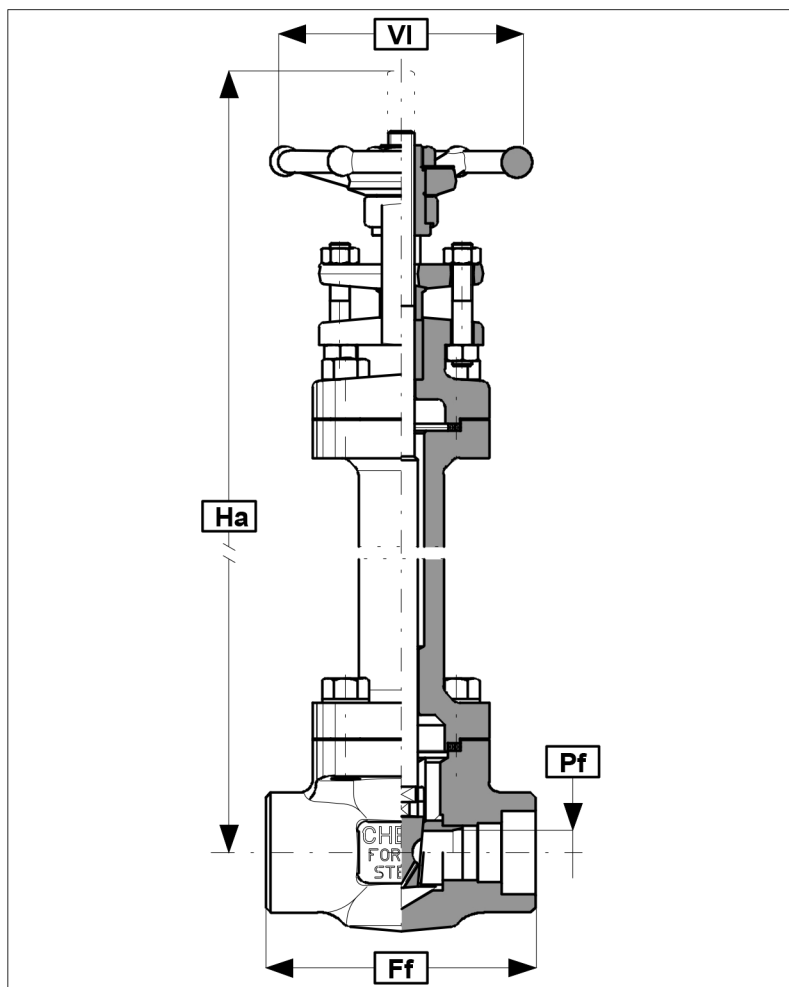
Hydraulic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction founded on API 602, BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test founded on API 598-BS 6755 (Pt.1)

Connections (xx)

SW Socket weld	B8 Butt weld 80
TH Threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw(u)/NPT	
B4 Butt weld 40	



CONVENTIONAL BORE

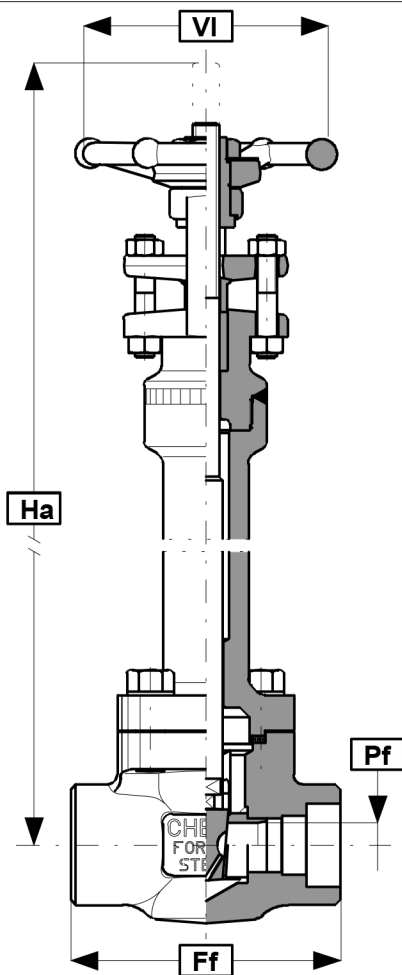
	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)	80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12
Ha (mm/in)	333 13,11	367 14,45	406 15,98	463 18,23	508 20,00	534 21,02
VI (mm/in)	90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51
Pf (mm/in)	10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44
Wt. (kg/lb)	3,1 6,8	3,6 7,9	5,7 12,5	8,8 19,4	11,7 25,7	14,4 31,7
Catal. no.	CR252B/xx	CR253B/xx	CR254B/xx	CR255B/xx	CR256B/xx	CR257B/xx

FULL BORE

	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)	80 3,15	80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12	150 5,91
Ha (mm/in)	333 13,11	333 13,11	367 14,45	406 15,98	463 18,23	508 20,00	534 21,02	658 25,91
VI (mm/in)	90 3,54	90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51	200 7,87
Pf (mm/in)	9 0,35	10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44	48 1,89
Wt. (kg/lb)	3,1 6,8	3,1 6,8	3,6 7,9	5,7 12,5	8,8 19,4	11,7 25,7	14,4 31,7	22,2 49,0
Catal. no.	CF210B/xx	CF211B/xx	CF212B/xx	CF213B/xx	CF214B/xx	CF215B/xx	CF216B/xx	CF217B/xx

1) Standard and alternative valve materials on page 67, type C
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW & NPT dimensions on page 73

4) On request flanged ends can be supplied; body dimensions on page 5,6,7
5) For Ha Length in according to customer desire extension should be welded



Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydraulic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction founded on API 602, BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test founded on API 598-BS 6755 (Pt.1)

Connections (xx)

SW Socket weld	B8 Butt weld 80
TH Threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw(u)/NPT	
B4 Butt weld 40	

CONVENTIONAL BORE

		1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)		80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12
Ha (mm/in)		333 13,11	367 14,45	406 15,98	463 18,23	508 20,00	534 21,02
VI (mm/in)		90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51
Pf (mm/in)		10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44
Wt. (kg/lb)		3,1 6,8	3,6 7,9	5,7 12,5	8,8 19,4	11,7 25,7	14,4 31,7
Catal. no.		CR252/xx	CR253/xx	CR254/xx	CR255/xx	CR256/xx	CR257/xx

FULL BORE

	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)	80 3,15	80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12	150 5,91
Ha (mm/in)	330 12,99	333 13,11	367 14,45	406 15,98	463 18,23	508 20,00	534 21,02	658 25,91
VI (mm/in)	90 3,54	90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51	200 7,87
Pf (mm/in)	9 0,35	10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44	48 1,89
Wt. (kg/lb)	3,1 6,8	3,1 6,8	3,6 7,9	5,7 12,5	8,8 19,4	11,7 25,7	14,4 31,7	22,2 48,8
Catal. no.	CF210/xx	CF211/xx	CF212/xx	CF213/xx	CF214/xx	CF215/xx	CF216/xx	CF217/xx

1) Standard and alternative valve materials on page 67, type C
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71, 72
3) SW & NPT dimensions on page 73

4) On request flanged ends can be supplied; body dimensions on page 5,6,7
5) For Ha Length in according to customer desire extension should be welded

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

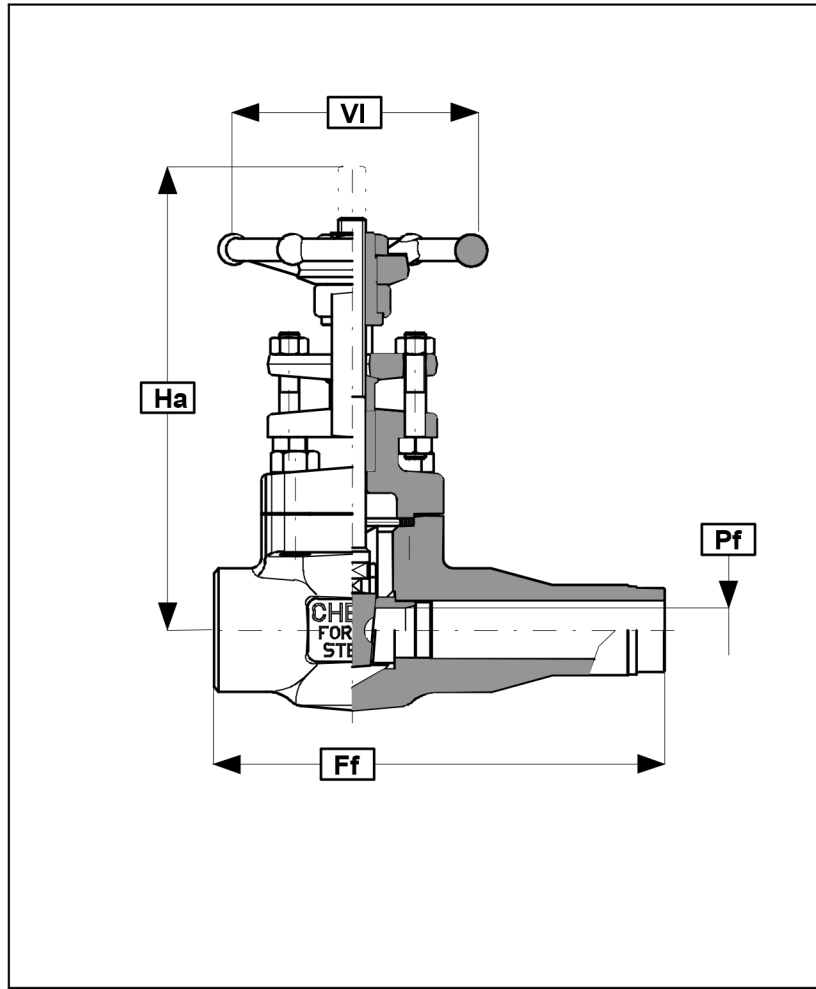
Hydraulic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction API 602, API 606
Socket weld ASME B16.11
Threaded ASME B1.20.1
Butt weld ASME B16.25
Test API 598-BS 6755 (Pt.1)

Connections (xx)

SNS Sw/ext. Sw	BNS BW80/ext. Sw
SNT Sw/ext. NPT	BNT BW80/ext. NPT
SNB Sw/ext. BW80	BNB BW80/ext. BW80
TNS NPT/ext. Sw	
TNT NPT/ext. NPT	
TNB NPT/ext. BW80	



CONVENTIONAL BORE

		1/2"	3/4"	1"		1.1/2"	2"
Ff (mm/in)		145 5,71	160 6,30	190 7,48		224 8,82	240 9,45
Ha (mm/in)		145 5,70	156 6,14	186 7,32		255 10,04	273 10,75
VI (mm/in)		90 3,54	90 3,54	100 3,94		140 5,51	140 5,51
Pf (mm/in)		10 0,39	14 0,55	18 0,71		31 1,22	36,5 1,44
Wt. (kg/lb)		1,9 4,2	2,4 5,3	3,8 8,4		7,7 16,9	7,7 16,9
Catal. no.		R252/xNx	R253/xNx	R254/xNx		R256/xNx	R257/xNx

1) Standard and alternative valve materials on page 67, type A
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW, NPT & BW dimensions on page 73

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

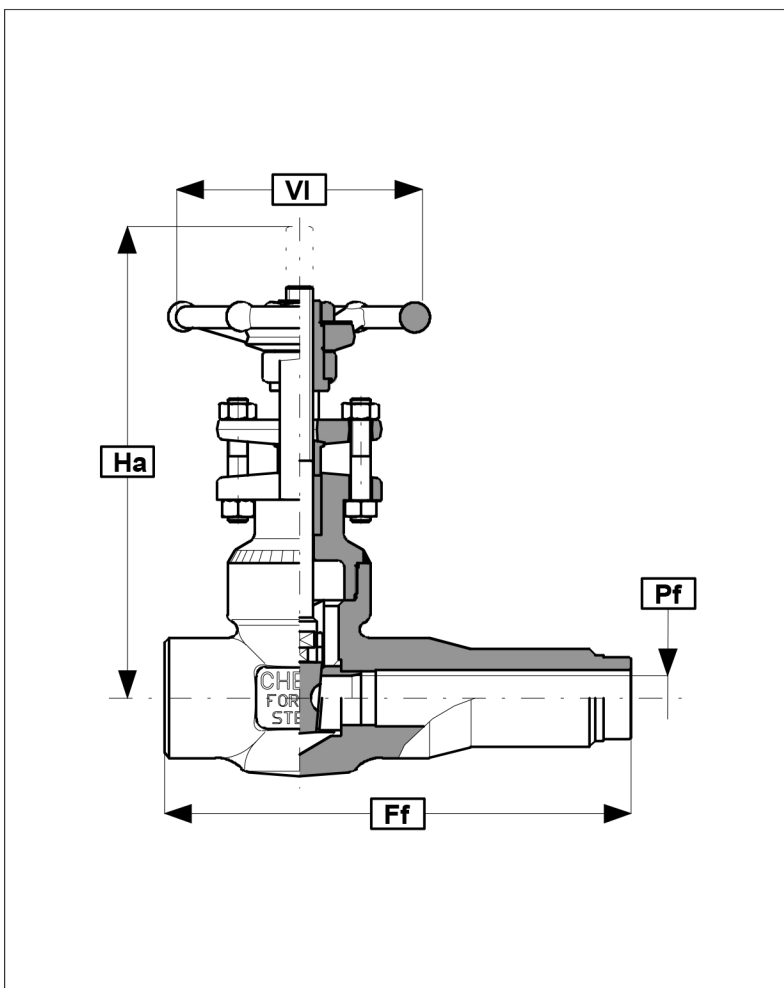
Hydraulic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction API 602, API 606
Socket weld ASME B16.11
Threaded ASME B1.20.1
Butt weld ASME B16.25
Test API 598-BS 6755 (Pt.1)

Connections (xx)

SNS Sw/ext. Sw	BNS BW80/ext. Sw
SNT Sw/ext. NPT	BNT BW80/ext. NPT
SNB Sw/ext. BW80	BNB BW80/ext. BW80
TNS NPT/ext. Sw	
TNT NPT/ext. NPT	
TNB NPT/ext. BW80	



CONVENTIONAL BORE

	1/2"		3/4"		1"		1.1/2"		2"	
Ff (mm/in)	145	5,71	160	6,30	190	7,48	224	8,82	240	9,45
Ha (mm/in)	150	5,91	157	6,18	188	7,40	248	9,76	273	10,75
VI (mm/in)	90	3,54	90	3,54	100	3,94	140	5,51	140	5,51
Pf (mm/in)	10	0,39	14	0,55	18	0,71	31	1,22	36,5	1,44
Wt. (kg/lb)	1,6	3,5	2,0	4,4	3,2	7,0	6,2	13,6	8,3	18,5
Catal. no.	R252WB/xNx		R253WB/xNx		R254WB/xNx		R256WB/xNx		R257WB/xNx	

1) Standard and alternative valve materials on page 67, type A
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW, NPT & BW dimensions on page 73

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

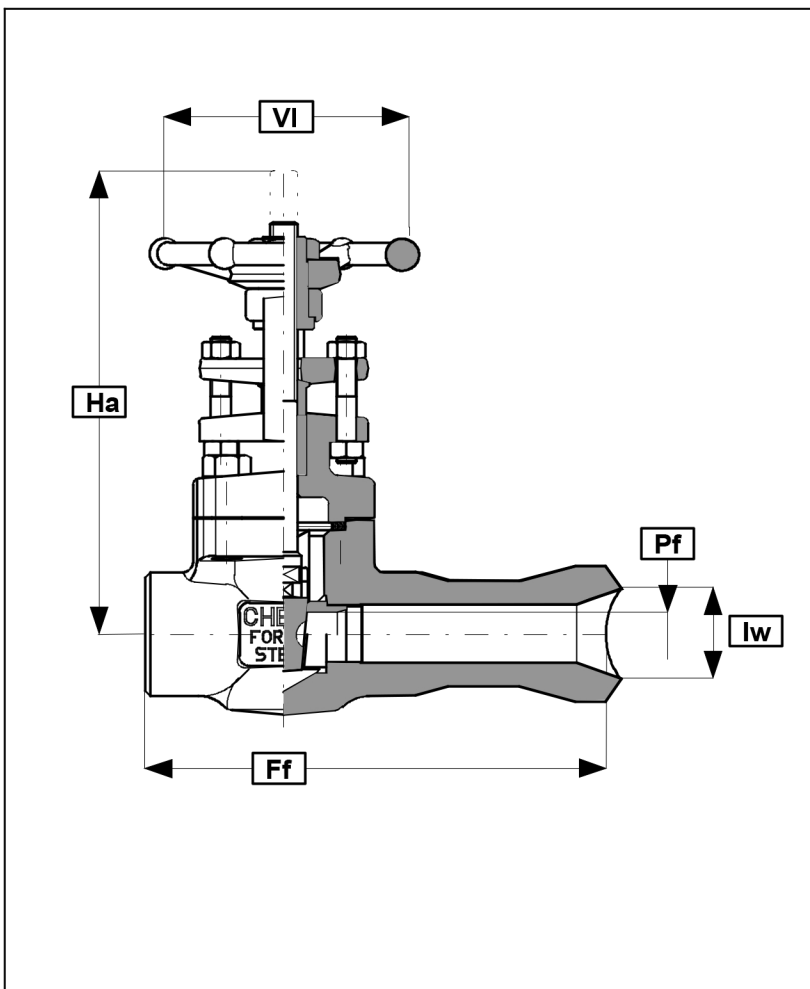
Hydraulic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction API 602, API 606
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections (xx)

SNW Sw/ext. Weld
TNW Sw/ext. Weld



CONVENTIONAL BORE

			1/2"	3/4"	1"	1.1/4"	1.1/2"	2" ⁽⁴⁾
Ff (mm/in)			208 8,19	218 8,58	244 9,60		263 10,35	268 10,55
Ha (mm/in)			208 5,90	156 6,14	186 7,32		255 10,04	273 10,75
VI (mm/in)			90 3,54	90 3,54	100 3,94		140 5,51	140 5,51
Pf (mm/in)			10 0,39	14 0,55	18 0,71		31 1,22	36,5
lw (mm/in)	1,44		22 0,87	30 1,18	36 1,42		50 1,97	65 2,56
Wt. (kg/lb)	29,7		2,5 5,5	2,8 6,2	5 11		9,8 21,56	13,5

Catal. no. R252/xNW R253/xNW R254/xNW R256/xNW R257/xNW

1) Standard and alternative valve materials on page 67, type A
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW, NPT & BW dimensions on page 73

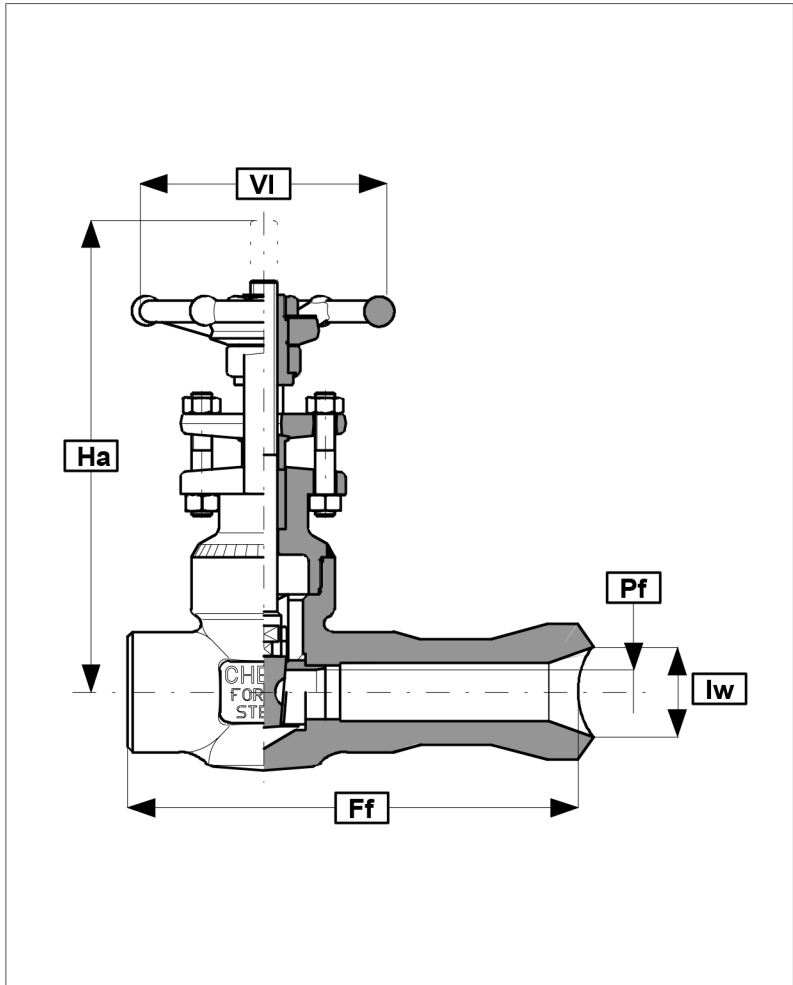
4) 2" : WELDED EXTENSION

Ratings (ASTM A105)	
800 p.s.i. @ 850°F	
1975 p.s.i. @ 100°F	

Test pressure (ASTM A105)	
Hydraulic:(minimum)	
Body - 3000 p.s.i.	
Seat - 2175 p.s.i.	
Air under water:	
Seat - 85 p.s.i.	

Standards	
Construction	API 602, API 606
Socket weld	ASME B16.11
Threaded	ASME B1.20.1
Test	API 598-BS 6755 (Pt.1)

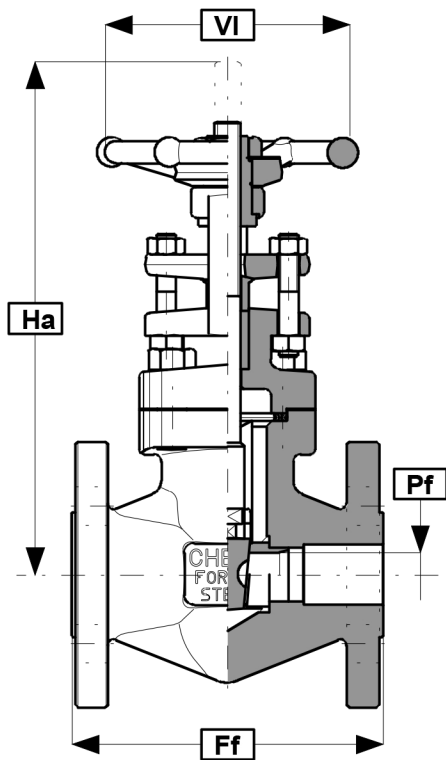
Connections (xx)	
SNW Sw/ext. Weld	
TNW Sw/ext. Weld	



CONVENTIONAL BORE											
				3/4"		1"		1.1/2"		2"	
Ff (mm/in)		208 8,19		218 8,58		244 9,60		263 10,35		268 10,55	
Ha (mm/in)		150 5,90		157 6,18		188 7,40		248 9,76		274 10,79	
VI (mm/in)		90 3,54		90 3,54		100 3,94		140 5,51		140 5,51	
Pf (mm/in)		10 0,39		14 0,55		18 0,71		31 1,22		36,5 1,44	
lw (mm/in)		22 0,87		30 1,18		36 1,42		50 1,97		65 2,56	
Wt. (kg/lb)		2,2 4,84		2,5 5,5		4,7 10,3		9 19,8		12,7 27,94	
Catal. no.		R252WB/xNW		R253WB/xNW		R254WB/xNW		R256WB/xNW		R257WB/xNW	

1) Standard and alternative valve materials on page 67, type
 2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
 3) SW, NPT & BW dimensions on page 73

4) 2": WELDED EXTENSION


Ratings (ASTM A105)

150 p.s.i. @ 550°F
285 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydraulic: (minimum)
Body - 450 p.s.i.
Seat - 325 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Flanged ASME B16.5, ASME B16.10
Test API 598-BS 6755 (Pt.1)

Connections (xx)

RF Raised face (std.)
FF Flat finish

CONVENTIONAL BORE

		1/2"		3/4"		1"		1.1/2"		2"	
Ff (mm/in)		107,9	4,25	117,5	4,63	127,0	5,00	165,1	6,50	177,8	7,00
Ha (mm/in)		179	7,05	186	7,32	208	8,19	255	10,04	273	10,75
VI (mm/in)		90	3,54	90	3,54	100	3,94	140	5,51	140	5,51
Pf (mm/in)		10	0,39	14	0,55	18	0,71	31	1,22	36,5	1,44
Wt. (kg/lb)		3,2	7,0	4,1	9,0	5,8	12,8	10	22,0	13,1	28,8
Catal. no.		R252/15xx		R253/15xx		R254/15xx		R256/15xx		R257/15xx	

FULL BORE

		1/2"		3/4"		1"		1.1/2"		2"	
Ff (mm/in)		107,9	4,25	117,5	4,63	127,0	5,00	165,1	6,50	177,8	7,00
Ha (mm/in)		183	7,20	191	7,52	216	8,50	273	10,75	314	12,36
VI (mm/in)		90	3,54	90	3,54	100	3,94	140	5,51	200	7,87
Pf (mm/in)		14	0,55	18	0,71	24	0,94	36,5	1,44	48	1,89
Wt. (kg/lb)		3,1	6,8	4	8,8	5,7	12,5	12,6	27,7	15,8	34,8
Catal. no.		F212/15xx		F213/15xx		F214/15xx		F216/15xx		F217/15xx	

- 1) Standard and alternative valve materials on page 67, type A
- 2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
- 3) Flanges & face-to-face dimensions on page 74, 75

Ratings (ASTM A105)

300 p.s.i. @ 850°F
740 p.s.i. @ 100°F

Test pressure (ASTM A105)
Hydraulic: (minimum)

Body - 1125 p.s.i.
Seat - 825 p.s.i.

Air under water:

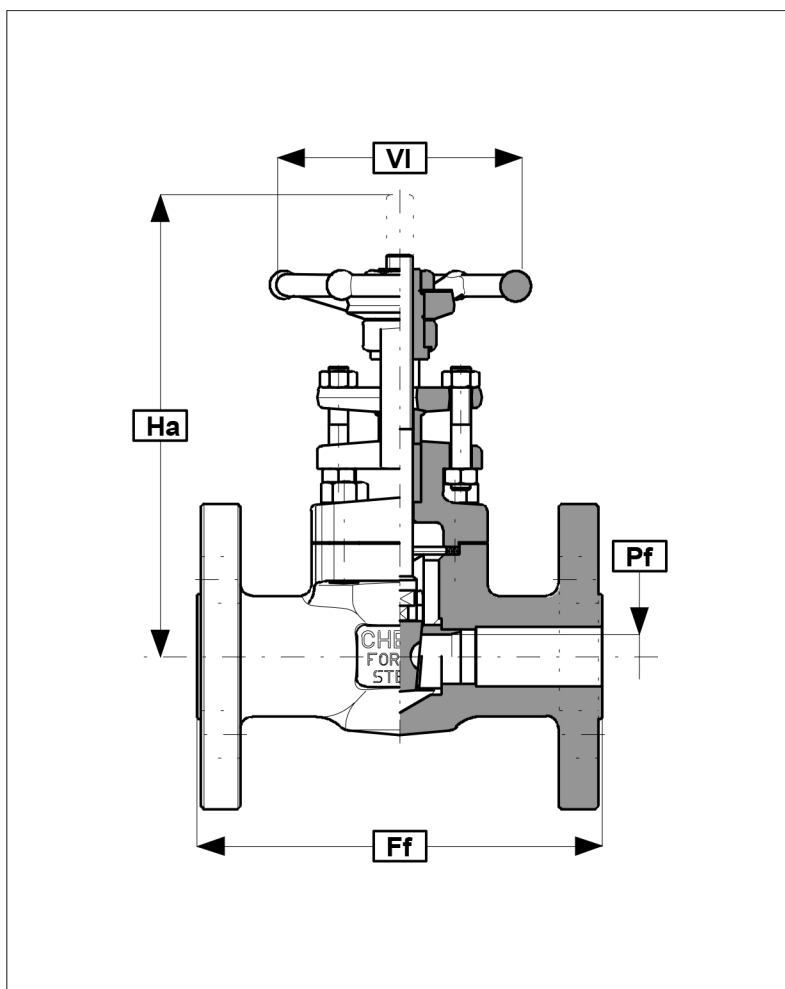
Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Flanged ASME B16.5, ASME B16.10
Test API 598-BS 6755 (Pt.1)

Connections (xx)

RF Raised face (std.)	LF Large female
RJ Ring joint	LG Large groove
SF Small female	LM Large male
SG Small groove	LT Large tongue
SM Small male	
ST Small tongue	

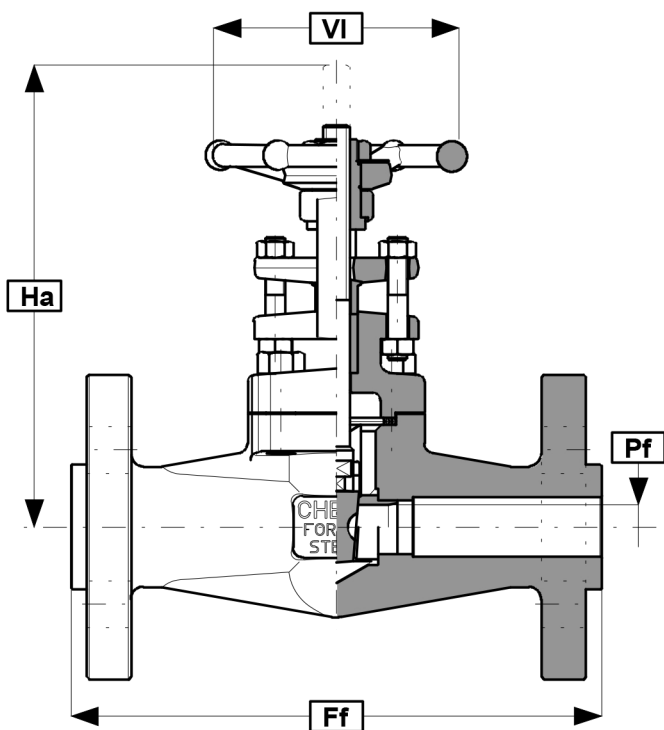

CONVENTIONAL BORE

	1/2"		3/4"		1"		1.1/2"		2"	
Ff (mm/in)	139,7	5,50	152,4	6,00	165,1	6,50	190,5	7,50	215,9	8,50
Ha (mm/in)	145	5,71	156	6,14	186	7,32	255	10,04	273	10,75
VI (mm/in)	90	3,54	90	3,54	100	3,94	140	5,51	140	5,51
Pf (mm/in)	10	0,39	14	0,55	18	0,71	31	1,22	36,5	1,44
Wt. (kg/lb)	3,8	8,4	5,4	11,9	6,5	14,3	13,1	28,8	17,3	38,1
Catal. no.	R252/30xx		R253/30xx		R254/30xx		R256/30xx		R257/30xx	

FULL BORE

	1/2"		3/4"		1"		1.1/2"		2"	
Ff (mm/in)	139,7	5,50	152,4	6,00	165,1	6,5	190,5	7,50	215,9	8,50
Ha (mm/in)	193	7,60	190	7,48	216	8,50	273	10,75	314	12,36
VI (mm/in)	90	3,54	100	3,94	120	4,72	140	5,51	200	7,87
Pf (mm/in)	14	0,55	18	0,71	24	0,94	36,5	1,44	48	1,89
Wt. (kg/lb)	4,5	9,9	6,0	13,2	7,6	16,7	14,0	32,6	18,8	41,4
Catal. no.	F212/30xx		F213/30xx		F214/30xx		F216/30xx		F217/30xx	

1) Standard and alternative valve materials on page 67, type A
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) Flanges & face-to face dimensions on page 74,75


Ratings (ASTM A105)

600 p.s.i. @ 850°F
1480 p.s.i. @ 100°F

Test pressure (ASTM A105)
Hydraulic: (minimum)

Body - 2225 p.s.i.
Seat - 1650 p.s.i.

Air under water:

Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Flanged ASME B16.5, ASME B16.10
Test API 598-BS 6755 (Pt.1)

Connections (xx)

RF Raised face (std.)	LF Large female
RJ Ring joint	LG Large groove
SF Small female	LM Large male
SG Small grove	LT Large tongue
SM Small male	
ST Small tongue	

CONVENTIONAL BORE

		1/2"		3/4"		1"		1.1/2"		2"	
Ff (mm/in)		165,1	6,50	190,5	7,50	215,9	8,50	241,3	9,50	292,1	11,50
Ha (mm/in)		145	5,71	156	6,14	186	7,32	255	10,04	273	10,75
VI (mm/in)		90	3,54	90	3,54	100	3,94	140	5,51	140	5,51
Pf (mm/in)		10	0,39	14	0,55	18	0,71	31	1,22	36,5	1,44
Wt. (kg/lb)		3,5	7,7	5,8	12,8	7,4	16,3	14,3	31,5	18,8	41,4
Catal. no.		R252/60xx		R253/60xx		R254/60xx		R256/60xx		R257/60xx	

FULL BORE

		1/2"		3/4"		1"		1.1/2"		2"	
Ff (mm/in)		165,1	6,50	190,5	7,50	215,9	8,50	241,3	9,50	292,1	11,50
Ha (mm/in)		176	6,93	206	8,11	216	8,50	255	10,04	334	13,15
VI (mm/in)		90	3,54	100	3,94	120	4,72	140	5,51	200	7,87
Pf (mm/in)		14	0,55	18	0,71	24	0,94	34	1,34	48	1,89
Wt. (kg/lb)		3,9	8,6	7,0	15,4	10,3	22,7	16,5	36,3	25,0	55,0
Catal. no.		F212/60xx		F213/60xx		F214/60xx		F216/60xx		F217/60xx	

1) Standard and alternative valve materials on page 67, type A
2) Complete Pressure-Temperature ratings on pag 68, 69, 70, 71,72
3) Flanges & face-to-face dimensions on page 74,75

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)
Hydraulic: (minimum)

Body - 3000 p.s.i.
Seat - 2175 p.s.i.

Air under water:

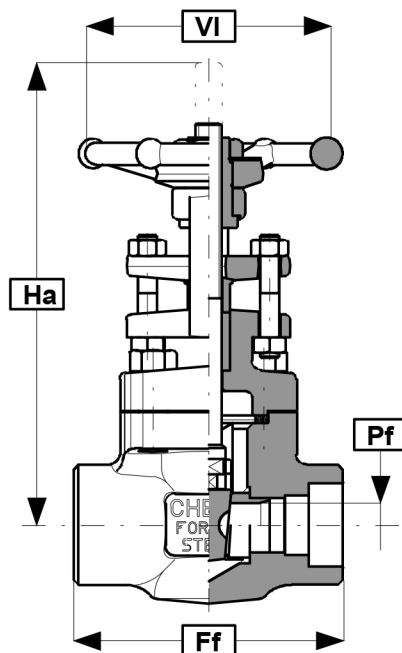
Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Butt weld ASME B16.25
Test API 598-BS 6755 (Pt.1)

Connections (xx)

SW Socket weld	B8 Butt weld 80
TH Threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw(u)/NPT	
B4 Butt weld 40	


CONVENTIONAL BORE

			1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)			80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12
Ha (mm/in)			145 5,70	156 6,14	186 7,32	216 8,50	255 10,04	273 10,75
VI (mm/in)			90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51
Pf (mm/in)			10 0,39	14 0,55	18 0,71	24 0,95	31 1,22	36,5 1,44
Wt. (kg/lb)			1,7 3,74	2,1 4,62	3,3 7,3	5,2 11,4	7,0 15,4	9,1 20,0
Catal. no.			R252/xx	R253/xx	R254/xx	R255/xx	R256/xx	R257/xx

FULL BORE

	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)	80 3,15	80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12	150 5,91
Ha (mm/in)	143 5,63	145 5,71	156 6,14	186 7,32	216 8,50	255 10,04	273 10,75	334 13,15
VI (mm/in)	90 3,54	90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51	200 7,87
Pf (mm/in)	8,5 0,33	10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44	48 1,89
Wt. (kg/lb)	1,8 4,0	1,8 4,0	2,2 4,8	3,4 7,5	5,3 11,7	7,1 15,6	9,2 20,2	14,2 31,2
Catal. no.	F210/xx	F211/xx	F212/xx	F213/xx	F214/xx	F215/xx	F216/xx	F217/xx

1) Standard and alternative valve materials on page 67, type A
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW, NPT & BW dimensions on page 73

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

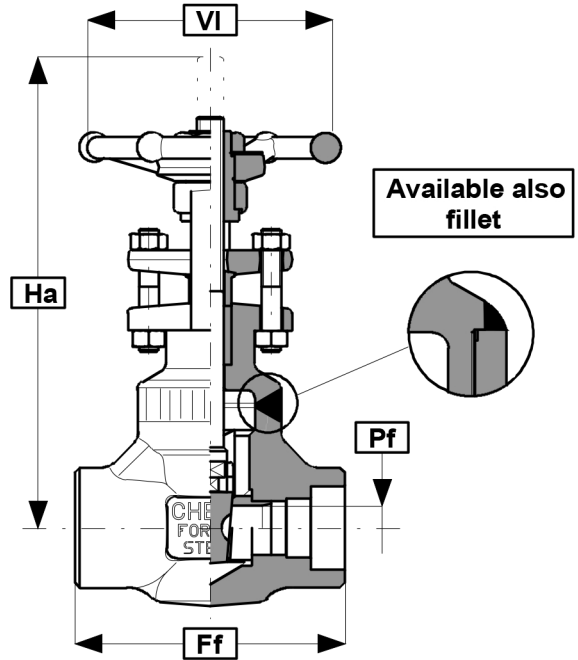
Hydraulic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction	API 602, BS 5352
Socket weld	ASME B16.11
Threaded	ASME B1.20.1
Butt weld	ASME B16.25
Test	API 598-BS 6755 (Pt.1)

Connections (xx)

SW Socket weld	B8 Butt weld 80
TH Threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw(u)/NPT	
B4 Butt weld 40	

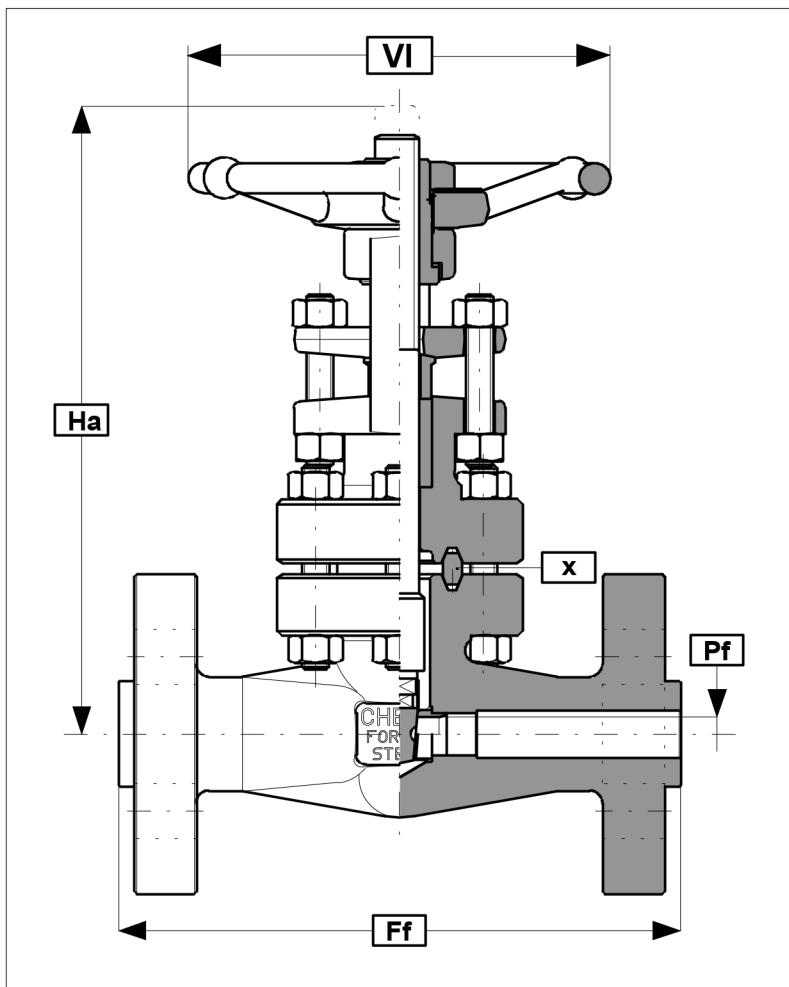

CONVENTIONAL BORE

			1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)			80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12
Ha (mm/in)			150 5,91	157 6,18	188 7,40	220 8,66	248 9,76	274 10,79
VI (mm/in)			90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51
Pf (mm/in)			10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44
Wt. (kg/lb)			1,4 3,1	1,7 3,7	2,8 6,2	4,4 9,7	5,6 12,3	7,6 16,7
Catal. no.			R252WB/xx	R253WB/xx	R254WB/xx	R255WB/xx	R256WB/xx	R257WB/xx

FULL BORE

	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)	80 3,15	80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12	150 5,91
Ha (mm/in)	150 5,91	150 5,91	157 6,18	188 7,40	220 8,66	248 9,76	274 10,79	334 13,15
VI (mm/in)	90 3,54	90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51	200 7,87
Pf (mm/in)	8,5 0,33	10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44	48 1,9
Wt. (kg/lb)	1,5 3,3	1,5 3,3	1,8 4,0	2,9 6,4	4,5 9,9	5,7 12,5	7,7 16,9	12,2 26,8
Catal. no.	F210WB/xx	F211WB/xx	F212WB/xx	F213WB/xx	F214WB/xx	F215WB/xx	F216WB/xx	F217WB/xx

1) Standard and alternative valve materials on page 67, type A
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW, NPT & BW dimensions on page 73


Ratings (ASTM A105)

 1500 p.s.i. @ 850°F
 3705 p.s.i. @ 100°F

Test pressure (ASTM A105)
Hydraulic: (minimum)
 Body - 5575 p.s.i.
 Seat - 4100 p.s.i.
Air under water:
 Seat - 85 p.s.i.

Standards
Construction BS 5352
Flanged ASME B16.5, ASME B16.10
Test BS 6755 (Pt.1)

Connections (xx)

RF	Raised face (std.)	LF	Large female
RJ	Ring joint	LG	Large groove
SF	Small female	LM	Large male
SG	Small groove	LT	Large tongue
SM	Small male		
ST	Small tongue		

X) Gasket=Spiral wound. RJ gasket available on request.
STANDARD BORE

	1/2"		3/4"		1"		1.1/2"		2"	
Ff (mm/in)	215,9	8,50	228,6	9,00	254,0	10,00	304,8	12,00	368,3	14,50
Ha (mm/in)	212	8,35	256	10,08	272	10,71	411	16,18	422	16,61
VI (mm/in)	120	4,72	175	6,89	175	6,89	260	10,24	260	10,24
Pf (mm/in)	11,5	0,45	15	0,59	19,5	0,77	32	1,26	40	1,57
Wt. (kg/lb)	9,7	21,3	15,5	34,1	17,5	38,5	38,5	84,7	56,0	123,2
Catal. no.	652/150xx		653/150xx		654/150xx		656/150xx		657/150xx	

 1) Standard and alternative valve materials on page 67
 2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
 3) Flanges & face-to-face dimensions on page 74,75

Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

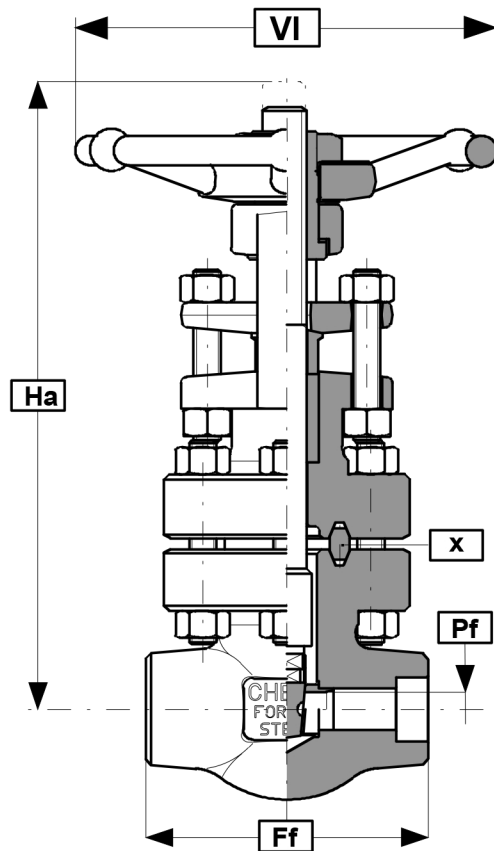
Hydraulic:(minimum)
Body - 5575 p.s.i.
Seat - 4100 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Butt weld ASME B16.25
Test BS 6755 (Pt.1)

Connections (xx)

SW Socket weld	B8 Butt weld 80
TH Threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw(u)/NPT	
B6 Butt weld 160	



X) Gasket=Spiral wound. RJ gasket available on request.

STANDARD BORE

	1/2"	3/4"	1"	1.1/2"	2"
Ff (mm/in)	110 4,33	115 4,53	130 5,12	210 8,27	240 9,45
Ha (mm/in)	212 8,35	256 10,09	272 10,79	411 16,18	422 16,6
VI (mm/in)	120 4,72	175 6,89	175 6,89	260 10,24	260 10,24
Pf (mm/in)	11,5 0,45	15 0,59	19,5 0,77	32 1,26	40 1,57
Wt. (kg/lb)	5,9 13,0	8,4 18,5	9,8 21,6	26,8 59,0	35,4 77,9
Catal. no.	652/xx	653/xx	654/xx	656/xx	657/xx

1) Standard and alternative valve materials on page 67
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW, NPT & BW dimensions on page 73

Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)
Hydraulic: (minimum)

Body - 5575 p.s.i.
Seat - 4100 p.s.i.

Air under water:

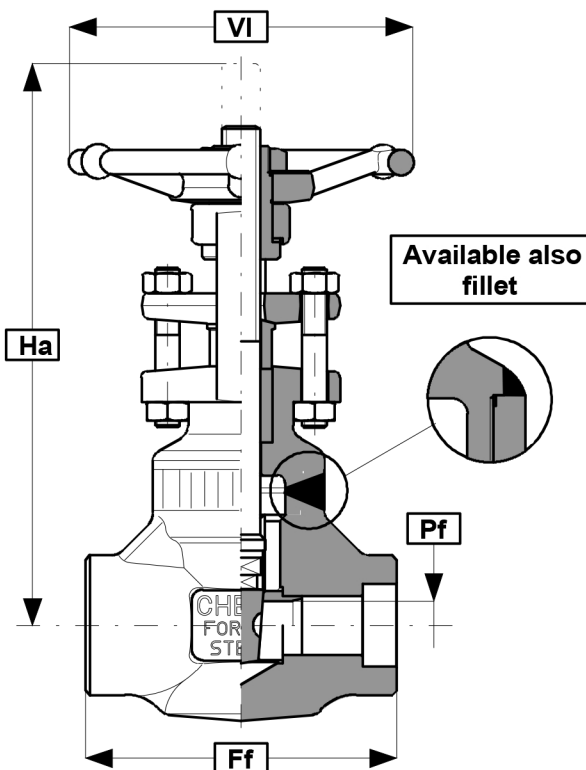
Seat - 85 p.s.i.

Standards

Construction	BS 5352
Socket weld	ASME B16.11
Threaded	ASME B1.20.1
Butt weld	ASME B16.25
Test	BS 6755 (Pt.1)

Connections (xx)

SW Socket weld	B8 Butt weld 80
TH threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw(u)/NPT	
B6 Butt weld 160	


STANDARD BORE

			1/2"		3/4"		1"			1.1/2"		2"	
Ff (mm/in)			90	3,54	110	4,33	127	5,00		130	5,12	150	5,90
Ha (mm/in)			175	6,88	217	8,54	234	9,54		295	11,61	375	14,76
VI (mm/in)			120	4,72	175	6,89	175	6,89		200	7,87	260	10,24
Pf (mm/in)			11,5	0,45	15	0,59	19,5	0,77		32	1,26	40	1,57
Wt. (kg/lb)			2,0	4,4	3,2	7,0	4,9	10,8		8,5	18,7	15	33
Catal. no.			652WB/xx		653WB/xx		654WB/xx			656WB/xx		657WB/xx	

1) Standard and alternative valve materials on page 67
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW, NPT & BW dimensions on page 73

Ratings (ASTM A105)

2500 p.s.i. @ 850°F
6170 p.s.i. @ 100°F

Test pressure (ASTM A105)
Hydraulic: (minimum)

Body - 9275 p.s.i.
Seat - 6800 p.s.i.

Air under water:

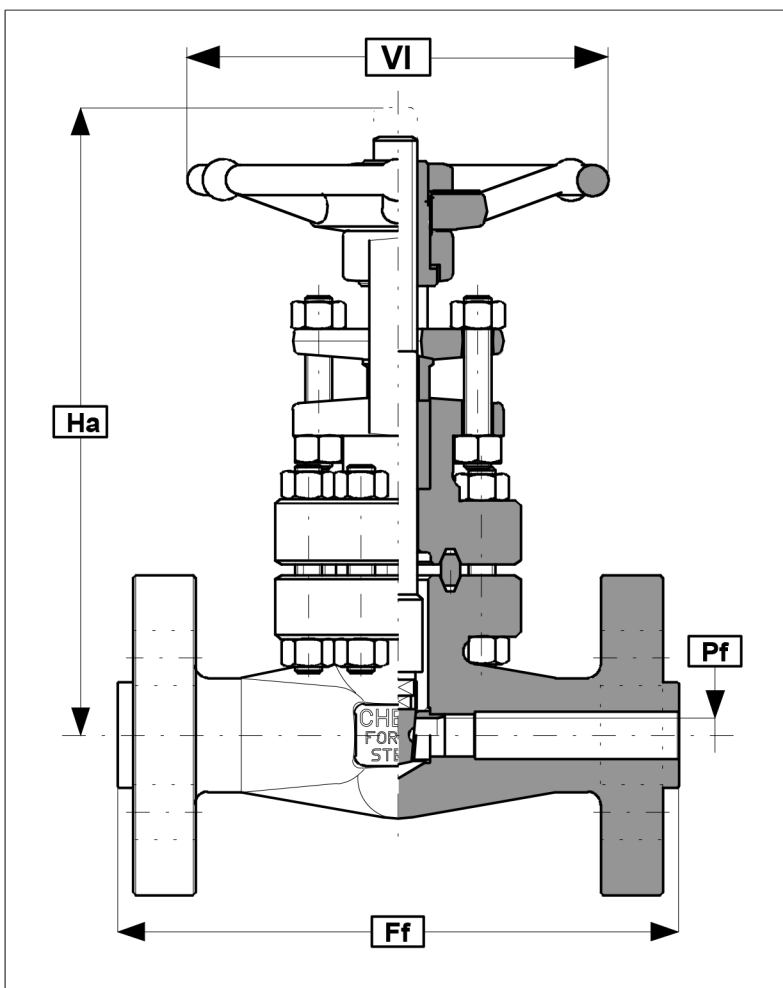
Seat - 85 p.s.i.

Standards

Construction founded on ASME B16.34
Flanged ASME B16.5, ASME B16.10
Test API 598-ASME B16.34

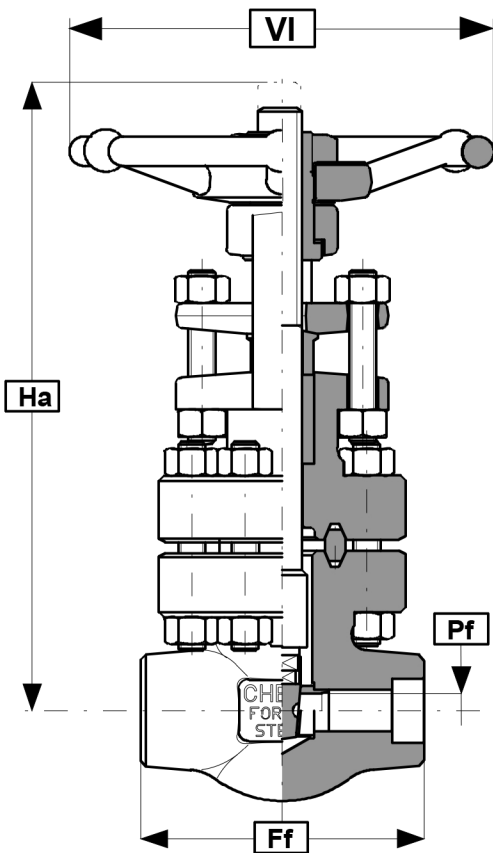
Connections (xx)

RF	Raised face (std.)	LF	Large female
RJ	Ring joint	LG	Large groove
SF	Small female	LM	Large male
SG	Small male	LT	Large tongue
SM	Small male		
ST	Small tongue		


STANDARD BORE

		1/2"		3/4"		1"		1.1/2"		2"	
Ff (mm/in)		263,5	10,37	273,0	10,75	308,0	12,13	384,2	15,13	450,8	17,75
Ha (mm/in)		212	8,35	256	10,08	272	10,71	411	16,18	422	16,61
VI (mm/in)		140	5,51	200	7,87	200	7,87	260	10,24	350	13,77
Pf (mm/in)		10	0,39	14	0,55	18	0,71	31	12,21	36,5	1,44
Wt. (kg/lb)		9,9	21,8	15,8	34,8	17,9	39,4	39,1	86,3	56,8	125,0
Catal. no.		1052/250xx		1053/250xx		1054/250xx		1056/250xx		1057/250xx	

1) Standard and alternative valve materials on page 67, type A
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) Flanges & face-to-face dimensions on page 74,75


Ratings (ASTM A105)

2500 p.s.i. @ 850°F
6170 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydraulic: (minimum)
Body - 9275 p.s.i.
Seat - 6800 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction founded on ASME B16.34
Socket weld ASME B16.11
Threaded ASME B1.20.1
Butt weld ASME B16.25
Test API 598-ASME B16.34

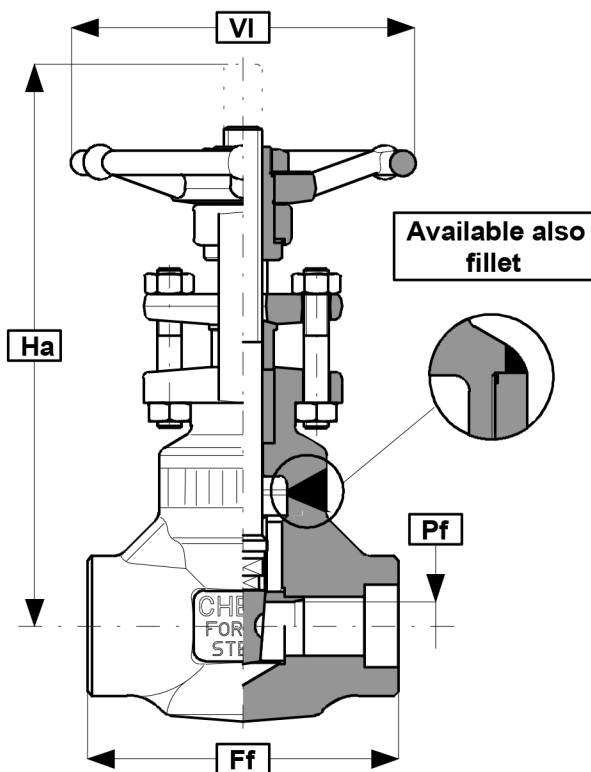
Connections (xx)

SW Socket weld	BX Butt weld XXS
TH Threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw8u)/NPT	
B6 Butt weld 160	

STANDARD BORE

		1/2"		3/4"		1"		1.1/2"		2"	
Ff (mm/in)		110	4,33	115	4,53	130	5,12	210	8,27	240	9,45
Ha (mm/in)		212	8,35	256	10,08	272	10,71	411	16,18	422	16,61
VI (mm/in)		140	5,51	200	7,87	200	7,87	260	10,24	350	13,77
Pf (mm/in)		10	0,48	14	0,55	18	0,71	31	1,22	36,5	1,44
Wt. (kg/lb)		6,1	13,4	8,7	19,1	10,2	22,4	27,4	60,3	36,2	79,6
Catal. no.		1052/xx		1053/xx		1054/xx		1056/xx		1057/xx	

1) Standard and alternative valve materials on page 67, type A
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW, NPT & BW dimensions on page 73


Ratings (ASTM A105)

 2500 p.s.i. @ 850°F
 6170 p.s.i. @ 100°F

Test pressure (ASTM A105)
Hydraulic: (minimum)
 Body - 9275 p.s.i.
 Seat - 6800 p.s.i.
Air under water:
 Seat - 85 p.s.i.

Standards

Construction	<i>founded on</i> ASME B16.34
Socket weld	ASME B16.11
Threaded	ASME B1.20.1
Butt weld	ASME B16.25
Test	API 598-ASME B16.34

Connections (xx)

SW Socket weld	BX Butt weld XXS
TH Threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw(u)/NPT	
B6 Butt weld 160	

STANDARD BORE

			1/2"		3/4"		1"			1.1/2"		2"	
Ff (mm/in)			110	4,33	127	5,00	127	5,00		150	5,91	240	9,45
Ha (mm/in)			198	7,80	225	8,85	243	9,57		387	15,24	403	15,87
VI (mm/in)			140	5,51	200	7,87	200	7,87		260	10,24	350	13,78
Pf (mm/in)			10	0,39	14	0,55	18	0,71		31	1,22	36,5	1,44
Wt. (kg/lb)			2,6	5,72	4,0	8,8	5,9	13,0		10,0	22,0	29	63,8
Catal. no.			1052WB/xx		1053WB/xx		1054WB/xx			1056WB/xx		1057WB/xx	

1) Standard and alternative valve materials on page 67, type A
 2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
 3) SW, NPT & BW dimensions on page 73

Ratings (ASTM A105)

4010 p.s.i. @ 850°F
11110 p.s.i. @ 100°F

Test pressure (ASTM A105)

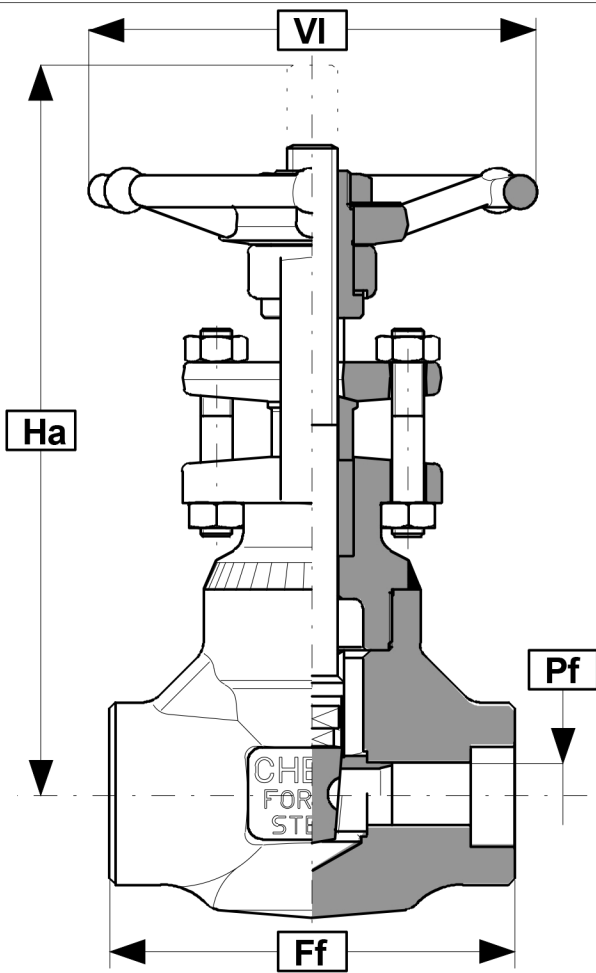
Hydraulic: (minimum)
Body - 16650 p.s.i.
Seat - 12210 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction	ASME B16.34
Socket weld	ASME B16.11
Threaded	ASME B1.20.1
Butt weld	ASME B16.25
Test	API 598-ASME B16.34

Connections (xx)

SW	Socket weld	BX	Butt weld XXS
TH	Threaded NPT		
TS	Sw/NPT		
SE	Sw(e)/NPT		
SU	Sw(u)/NPT		
B6	Butt weld 160		


STANDARD BORE

		1/2"		3/4"		1"			1 1/2"		2"	
Ff (mm/in)		127	5,00	127	5,00	130	5,12		240	9,45	240	9,45
Ha (mm/in)		234	9,21	259	10,20	323	12,72		431	16,97	486	19,13
VI (mm/in)		175	6,89	200	7,87	260	10,24		350	13,78	350	13,78
Pf (mm/in)		8	0,31	11	0,43	15	0,59		25	0,98	30	1,18
Wt. (kg/lb)		4,1	9,0	6,2	13,6	11,8	26,0		28,0	61,6	42,0	92,4
Catal. no.		2052WB/xx		2053WB/xx		2054WB/xx			2056WB/xx		2057WB/xx	

1) Standard and alternative valve materials on page 72, type A
2) Complete Pressure-Temperature ratings on page 73 , 74 , 75 , 76 , 77.
3) SW, NPT & BW dimensions on page 78.

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydraulic: (minimum)

Body - 3000 p.s.i.
Seat - 2175 p.s.i.

Air under water:

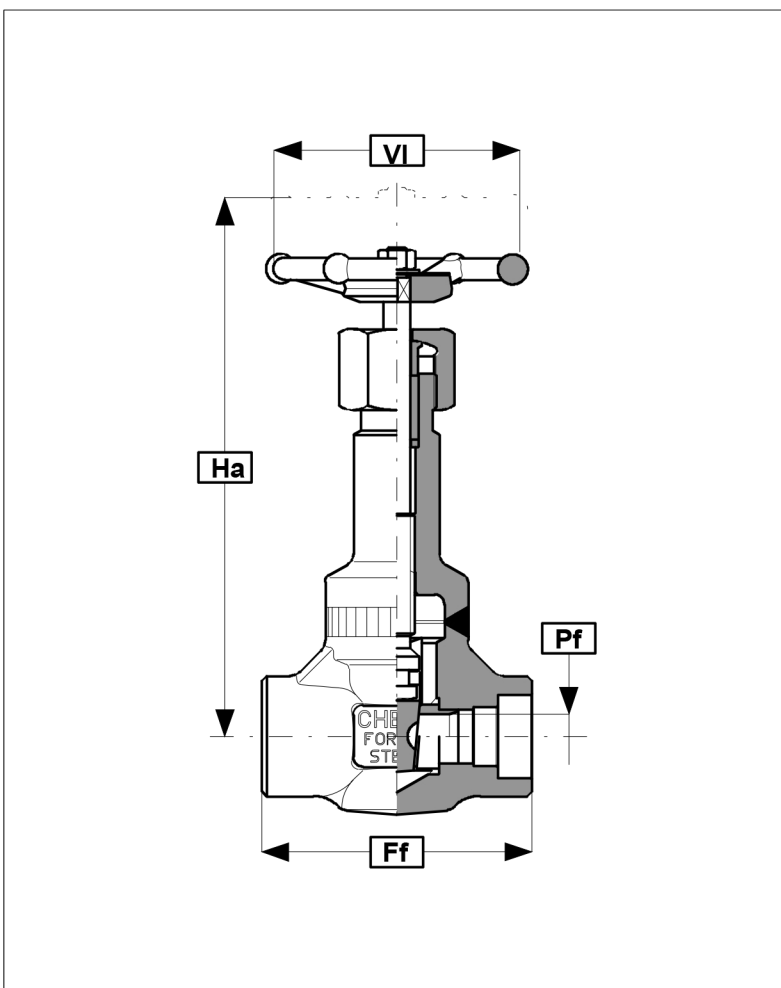
Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections (xx)

SW Socket weld	B8 Butt weld 80
TH Threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw(u)/NPT	
B4 Butt weld 40	



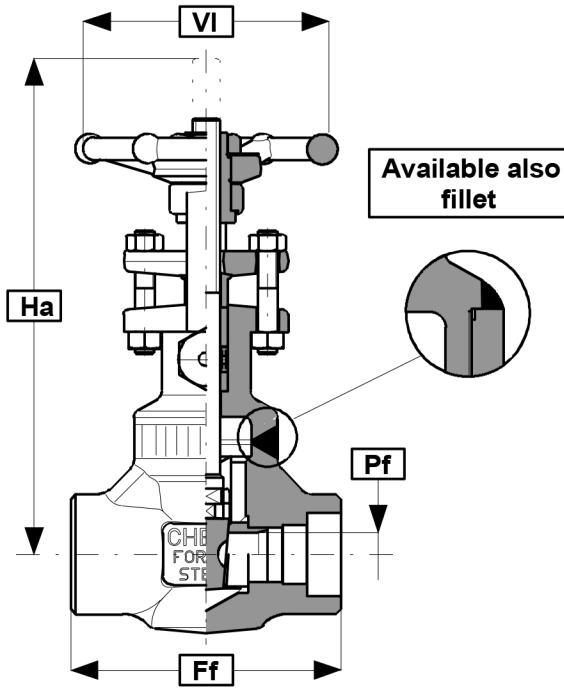
CONVENTIONAL BORE

			1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)			80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12
Ha (mm/in)			158 6,22	183 7,20	201 7,91	255 10,03	276 10,87	310 12,21
VI (mm/in)			90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51
Pf (mm/in)			10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44
Wt. (kg/lb)			1,5 3,3	1,9 4,2	3,2 7,0	4,9 10,8	6,2 13,6	8,4 18,5
Catal. no.			IR252WF/xx	IR253WF/xx	IR254WF/xx	IR255WF/xx	IR256WF/xx	IR257WF/xx

FULL BORE

Ff (mm/in)								
Ha (mm/in)								
VI (mm/in)								
Pf (mm/in)								
Wt. (kg/lb)								
Catal. no.								

1) Standard and alternative valve materials on page 67, type E
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW & NPT dimensions on page 73



Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydraulic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Air under water:
Seat - 85 p.s.i.

Standards

Construction *founded on* API 602, BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test *founded on* API 598-BS 6755 (Pt.1)

Connections (xx)

SW Socket weld	B8 Butt weld 80
TH Threaded NPT	
TS Sw/NPT	
SE Sw(e)/NPT	
SU Sw(u)/NPT	
B4 Butt weld 40	

CONVENTIONAL BORE

			1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Ff (mm/in)			80 3,15	90 3,54	110 4,33	127 5,00	127 5,00	130 5,12
Ha (mm/in)			164 6,46	171 6,73	204 8,03	240 9,45	268 10,55	296 11,65
VI (mm/in)			90 3,54	90 3,54	100 3,94	120 4,72	140 5,51	140 5,51
Pf (mm/in)			10 0,39	14 0,55	18 0,71	24 0,94	31 1,22	36,5 1,44
Wt. (kg/lb)			1,6 3,5	1,9 4,2	3,1 6,8	4,2 9,24	6,1 13,4	8,2 18,0
Catal. no.			LR252WB/xx	LR253WB/xx	LR254WB/xx	LR255WB/XX	LR256WB/xx	LR257WB/xx

FULL BORE

Ff (mm/in)								
Ha (mm/in)								
VI (mm/in)								
Pf (mm/in)								
Wt. (kg/lb)								
Catal. no.								

1) Standard and alternative valve materials on page 67, type A
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72
3) SW & NPT dimensions on page 73

4) Available also for vacuum service